

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383413

Luminaire Tested: **GLEON-SA7B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30824 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

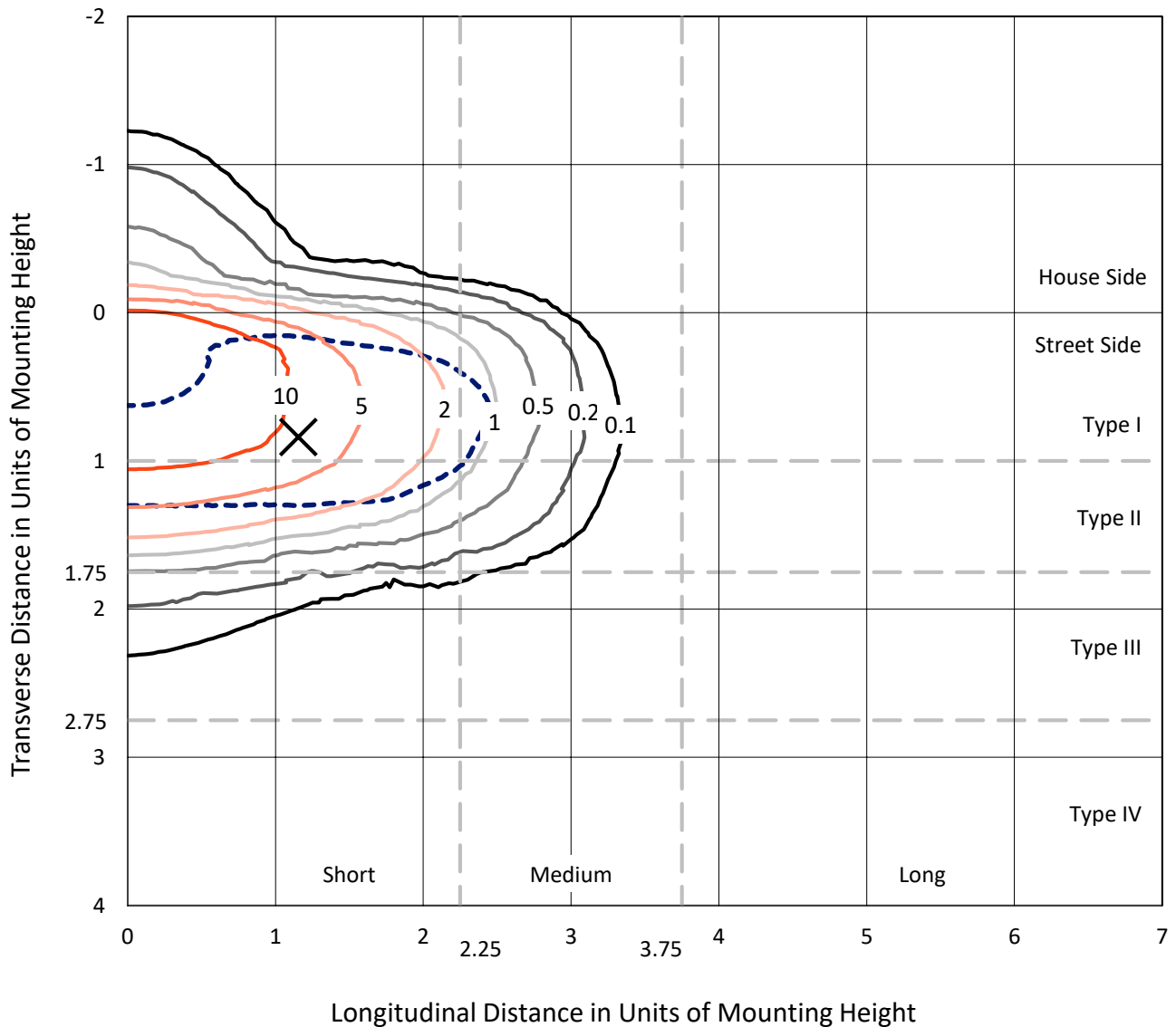
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

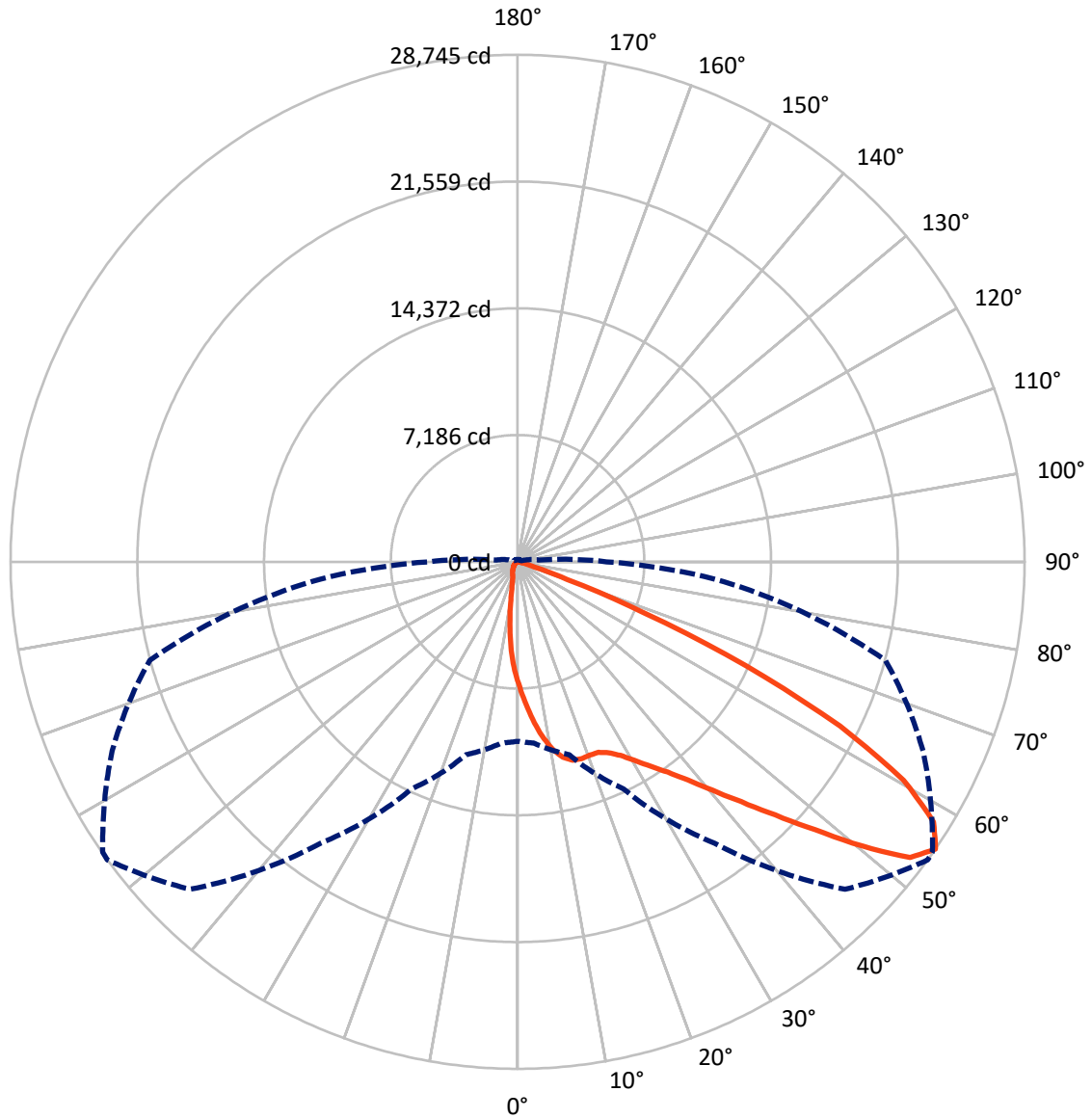
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1537.9	0.0	1537.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29286.1	0.0	29286.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	30824.0	0.0	30824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.7	2.1
10°-20°	1743.5	5.7
20°-30°	2976.7	9.7
30°-40°	4777.1	15.5
40°-50°	7633.8	24.8
50°-60°	8179.8	26.5
60°-70°	4199.8	13.6
70°-80°	636.2	2.1
80°-90°	41.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30824.0	100.0
0°-180°	30824.0	100.0

Coefficient of Utilization

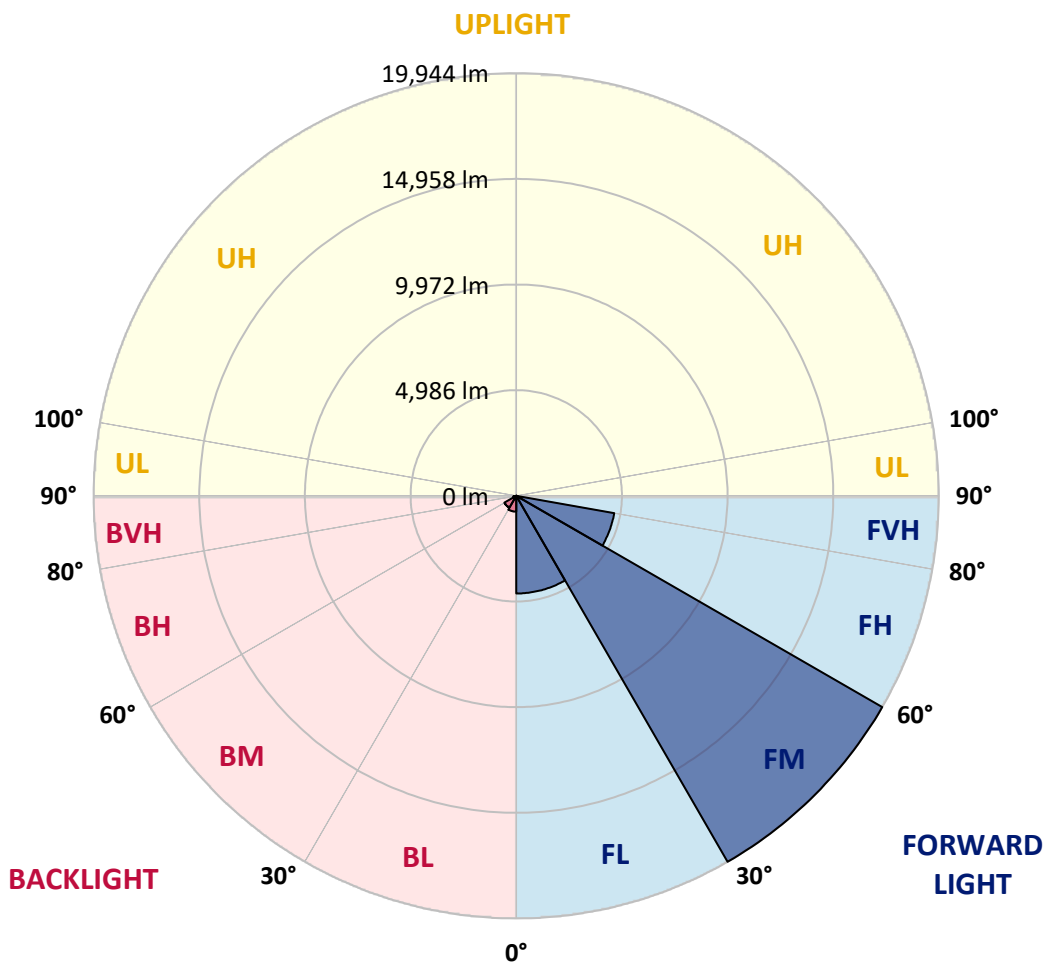


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4607.6	14.9			
FM (30°-60°)	19944.5	64.7			
FH (60°-80°)	4694.2	15.2			G2/5000
FVH (80°-90°)	39.8	0.1			G1/100
BL (0°-30°)	748.2	2.4	B2/1000		
BM (30°-60°)	646.3	2.1	B1/1000		
BH (60°-80°)	141.7	0.5	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3
2.5°	8663.1	8534.0	8538.0	8479.4	8265.1	8097.4	7923.0	7881.7	7610.2	7325.3	7051.1
5°	10160.7	10066.1	10043.5	9930.4	9632.2	9316.7	8978.6	8900.1	8368.9	7785.9	7212.1
7.5°	10930.0	10931.4	10912.7	10871.5	10685.1	10378.9	9966.3	9883.8	9160.9	8286.4	7379.9
10°	10706.5	10757.0	10860.8	10997.9	11140.4	11101.8	10791.6	10717.1	9931.7	8816.2	7566.2
12.5°	10184.6	10191.2	10307.1	10532.1	10942.1	11362.6	11368.0	11342.7	10667.8	9370.0	7771.2
15°	9925.1	9950.3	9992.9	10138.0	10526.7	11200.3	11682.2	11718.1	11342.7	9958.3	7989.5
17.5°	10095.5	10131.3	10095.5	10112.7	10337.7	10943.4	11736.8	11828.6	11932.4	10540.0	8195.8
20°	10557.3	10590.6	10526.7	10456.2	10500.1	10868.8	11698.1	11821.9	12394.3	11056.5	8368.9
22.5°	11180.3	11193.7	11096.4	10980.6	10948.7	11121.7	11730.0	11857.9	12764.3	11523.7	8478.1
25°	11865.9	11877.8	11756.7	11623.6	11547.7	11618.3	11992.3	12088.1	13090.5	11969.6	8540.6
27.5°	12612.6	12623.3	12471.6	12307.8	12219.9	12222.6	12425.0	12527.5	13437.9	12478.2	8591.2
30°	13402.0	13396.7	13256.9	13029.3	12917.5	12914.8	13047.9	13151.8	13941.1	13130.4	8660.4
32.5°	14288.5	14277.9	14079.6	13797.3	13670.9	13689.6	13808.0	13867.9	14565.4	13825.3	8784.2
35°	15456.0	15425.3	15125.8	14775.7	14542.8	14536.1	14636.0	14683.9	15361.4	14666.6	8990.6
37.5°	16970.8	16942.9	16536.8	16028.4	15700.9	15578.5	15696.9	15758.2	16497.0	15746.1	9322.0
40°	18464.4	18436.4	18195.5	17729.6	17225.1	16930.9	17024.0	17089.2	17914.6	17056.0	9740.0
42.5°	19494.7	19518.6	19602.5	19641.1	19168.5	18550.8	18593.5	18661.3	19404.1	18456.4	10217.9
45°	19766.2	19818.1	20292.0	21222.5	21399.5	20917.6	20471.7	20509.0	20917.6	19856.8	10695.8
47.5°	18950.2	19046.0	19960.5	21691.1	23189.9	23530.7	22686.7	22637.5	22369.9	20989.5	11035.2
50°	17095.9	17183.8	18368.5	20928.3	23733.0	26025.3	25341.1	25195.9	23643.9	21667.1	11155.0
52.5°	14412.3	14518.8	15481.3	18526.9	22709.4	27138.1	27854.3	27733.1	24578.3	21720.3	11175.0
55°	10178.0	10307.1	11325.4	14199.4	19465.3	26252.9	28744.9	28708.9	25354.4	21579.2	11217.6
57.5°	5720.0	5813.1	6911.3	9102.4	14256.6	22866.4	27814.3	28052.6	25823.0	21334.3	11281.5
60°	2539.9	2565.1	3133.5	4531.2	8346.3	17475.3	25150.7	25552.7	25420.9	21006.9	11389.3
62.5°	1408.3	1387.1	1387.1	1883.6	3627.4	10818.2	20509.0	21173.2	23705.1	20619.5	11394.6
65°	1103.5	1083.6	1026.3	1034.3	1381.8	4801.5	14202.0	15382.7	20446.4	19484.0	11011.3
67.5°	935.8	918.5	861.2	838.6	858.6	1584.1	7803.2	9029.2	15514.6	16532.8	9537.7
70°	790.7	778.7	749.4	721.5	670.9	782.7	2985.8	3819.1	9560.3	10997.9	6510.7
72.5°	636.2	630.9	641.6	617.6	556.4	521.9	1021.0	1236.6	4294.2	4908.0	2682.3
75°	548.4	545.8	551.1	527.2	457.9	363.4	519.2	567.0	1211.4	1200.7	543.1
77.5°	356.8	360.7	456.6	445.9	394.0	242.3	268.9	290.2	367.4	275.6	165.1
80°	227.7	225.0	231.6	370.1	354.1	185.0	134.4	141.1	177.1	135.8	79.8
82.5°	138.4	135.8	151.7	173.1	178.4	129.1	82.5	83.8	110.5	87.8	42.6
85°	12.0	15.9	91.9	85.2	61.2	40.0	40.0	42.6	58.6	51.9	23.9
87.5°	0.0	0.0	15.9	23.9	13.3	14.6	14.6	15.9	22.6	22.6	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3
2.5°	6908.6	6770.2	6490.7	6221.8	5994.1	5774.5	5524.3	5276.7	5160.9	5114.3	5066.3
5°	6920.7	6635.8	6059.3	5479.0	4877.3	4335.5	3873.7	3399.8	3162.8	3059.0	3011.0
7.5°	6936.6	6502.7	5570.8	4596.4	3627.4	2892.5	2251.0	1838.3	1659.9	1632.0	1562.8
10°	6939.3	6341.6	5003.8	3622.0	2432.0	1743.8	1341.8	1128.8	1050.3	1037.0	1014.4
12.5°	6944.6	6151.2	4374.2	2682.3	1621.4	1166.1	970.4	899.9	878.5	877.2	877.2
15°	6960.6	5951.6	3720.6	1932.9	1164.7	923.8	851.9	824.0	816.0	819.9	818.6
17.5°	6960.6	5716.0	3079.0	1440.3	941.1	830.7	790.7	772.1	769.4	773.4	774.8
20°	6910.0	5429.7	2490.6	1120.8	834.7	770.8	734.8	717.5	710.9	713.5	714.9
22.5°	6788.8	5078.3	2011.4	927.8	764.1	716.2	677.5	651.0	640.3	641.6	641.6
25°	6599.8	4661.7	1573.4	802.7	706.9	657.6	612.3	581.8	575.0	573.7	576.3
27.5°	6357.5	4201.1	1252.7	706.9	638.9	592.4	547.1	521.9	516.4	517.8	519.2
30°	6119.2	3723.2	987.7	625.6	563.1	519.2	484.5	472.6	472.6	476.6	477.9
32.5°	5901.0	3264.0	781.4	555.1	495.2	455.2	435.3	433.9	440.6	443.2	444.6
35°	5713.3	2839.4	647.0	500.5	441.9	407.4	400.7	406.0	414.0	419.3	420.7
37.5°	5580.2	2459.9	565.7	455.2	400.7	372.7	371.4	382.0	392.6	404.7	407.4
40°	5524.3	2139.1	509.8	415.3	367.4	346.1	342.1	356.8	376.7	394.0	396.7
42.5°	5477.7	1876.9	462.0	376.7	340.8	310.1	308.8	327.4	351.4	368.7	372.7
45°	5437.7	1666.6	418.0	335.5	306.2	266.2	270.2	294.2	312.8	331.4	335.5
47.5°	5355.2	1493.6	370.1	291.5	252.9	227.7	235.6	256.9	271.5	299.5	303.5
50°	5207.4	1352.4	320.8	238.3	206.3	197.0	208.9	223.7	242.3	266.2	268.9
52.5°	5107.6	1245.9	278.3	199.6	170.4	173.1	185.0	190.3	201.0	210.3	207.6
55°	5050.4	1187.4	243.6	173.1	145.1	153.1	155.8	149.0	143.7	134.4	130.4
57.5°	5043.7	1134.2	217.0	150.4	127.8	131.8	122.5	99.9	81.2	70.5	67.9
60°	5033.1	1069.0	195.7	126.5	113.2	107.8	87.8	54.6	38.6	36.0	36.0
62.5°	4917.3	967.8	179.7	106.5	95.9	81.2	50.6	25.3	21.3	22.6	22.6
65°	4548.6	826.7	163.8	86.5	75.9	58.6	25.3	14.6	8.0	9.3	9.3
67.5°	3866.9	658.9	146.4	66.5	57.2	37.3	14.6	6.6	0.0	0.0	0.0
70°	2589.1	408.7	123.8	46.6	37.3	22.6	10.6	1.3	0.0	0.0	0.0
72.5°	993.0	221.0	99.9	27.9	23.9	15.9	6.6	0.0	0.0	0.0	0.0
75°	223.7	145.1	69.2	19.9	17.3	10.6	2.7	0.0	0.0	0.0	0.0
77.5°	85.2	105.2	40.0	13.3	12.0	6.6	0.0	0.0	0.0	0.0	0.0
80°	41.3	62.6	18.6	8.0	6.6	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.3	23.9	8.0	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	12.0	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)